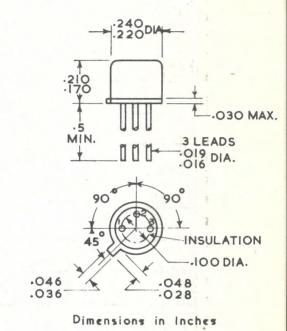
#### AMALGAMATED WIRELESS VALVE CO. PTY. LTD.



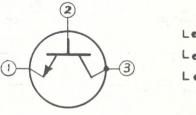
AS205 AS209

The AS205 and AS209 are n-p-n silicon planar epitaxial transistors for audio and general purpose use in consumer and professional equipment. The AS205 features low saturation voltage (less than 0.3 volt at 300mA). These transistors are in the TO-104 package outline, but with three leads. The collector is connected to the shell.

#### DIMENSIONAL OUTLINE



## TERMINAL DIAGRAM



Lead 1-Emitter Lead 2-Base Lead 3-Collector Case

### ABSOLUTE MAXIMUM RATINGS

Collector-base voltage = 20 volts Collector-emitter voltage = 20 volts Emitter-base voltage 5 volts = Emitter current = 350 mA

Base current 30mA

### THERMAL RATINGS

Dissipation at case temperatures up to  $75^{\circ}$ C ----- 2W max. Derate linearly to zero at 175°C.

Dissipation in an ambient temperature up to 25°C 500mW max. Derate linearly to zero at 175°C.

During soldering lead temperature must not exceed 255°C for 10 secs. max. with 1/16" of can.

Storage temperature  $-65^{\circ}$ C to  $175^{\circ}$ C.

# CHARACTERISTICS AT 25°C AS205

AS205 AS209

PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
I CBO	V <sub>CB</sub> = 12V	a ett		450	nA
I <sub>EBO</sub>	V <sub>EB</sub> = 2.5V	U 3 0		450	nA
EBF	V <sub>CB</sub> = 25V	tupe.		1	V
CEO	I <sub>C</sub> = 10mA	20			V
I B	V <sub>CE</sub> = 10V, I <sub>E</sub> = 10mA sor-py s	33	8-7.5	167	μА
f I I I I	V <sub>CE</sub> = 10V, I <sub>E</sub> = 10mA	ndf d	175	110 , -	MHz
b'c	$V_{CB} - 6V$ , $I_{E} = 0$	90 080	12	l Nelv	pF
be to					
	AS205				
I <sub>CBO</sub>	V <sub>CB</sub> = 25V			100	nA
I EBO	V <sub>EB</sub> = 2.5V		•	100	nA
CE(sat.)	$I_{C} = 300 \text{mA}, I_{B} = 15 \text{mA}$		0.24	0.3	V
		den charac			118.20
MINAL DIA	AS209		100 110		LUCCI
CE(sat.)	$I_C = 100 \text{mA}$ , $I_B = 5 \text{mA}$	î - :	0.1	0.2	) 5 V( c
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